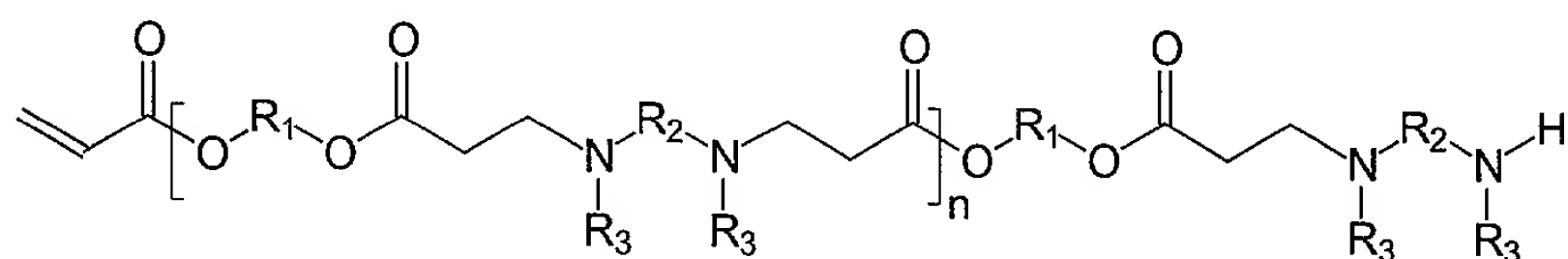
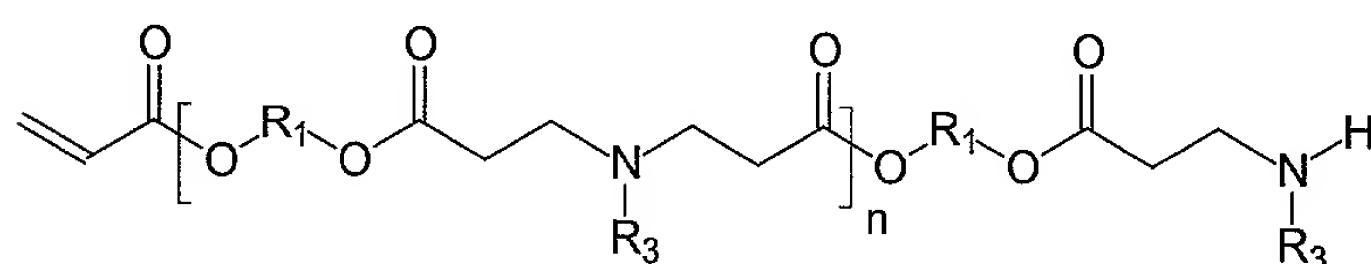


# We claim

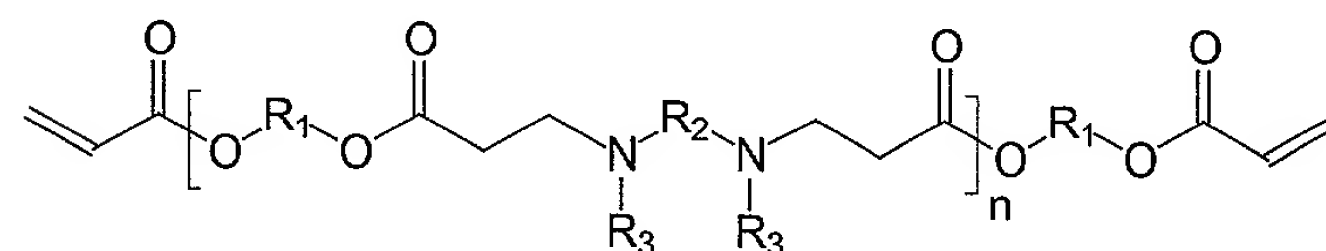
1. Dental compositions comprising at least a polymerizable monomer and/or at least a polyaminoester of formulas 1 to 6, pigments, organic and/or inorganic fillers, initiators and stabilizers.



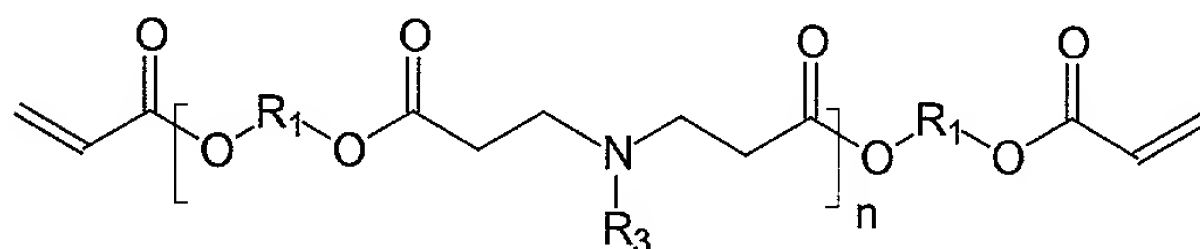
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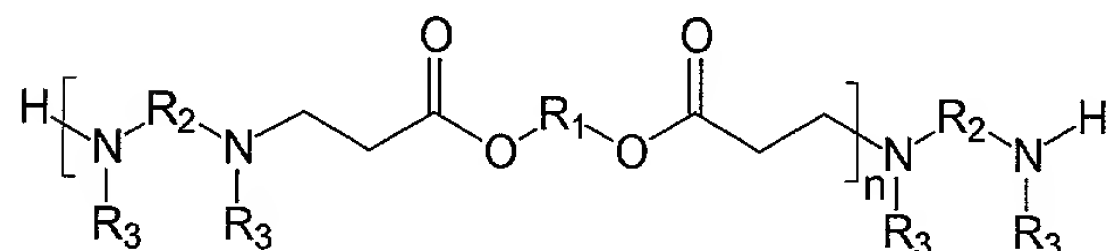
2



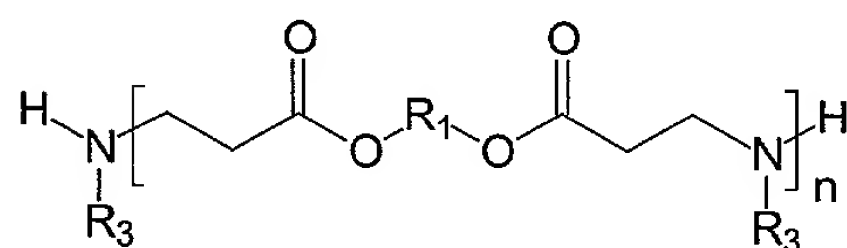
3



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5



6

wherein

R<sub>1</sub> denotes is a difunctional substituted or unsubstituted C<sub>1</sub> to C<sub>18</sub> alkylene, difunctional substituted or unsubstituted cycloalkylene, difunctional substituted or unsubstituted C<sub>5</sub> to C<sub>18</sub> arylene or heteroarylene, difunctional substituted or

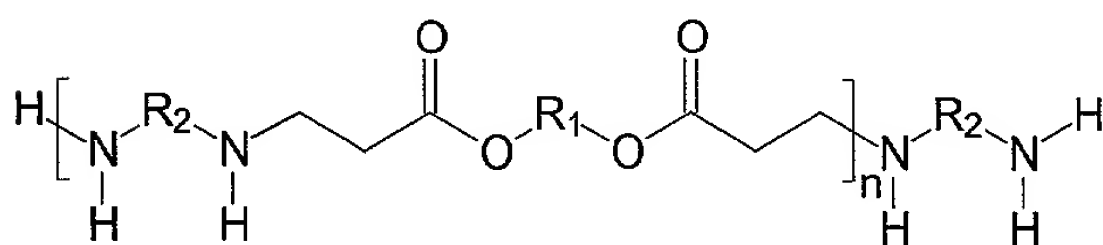
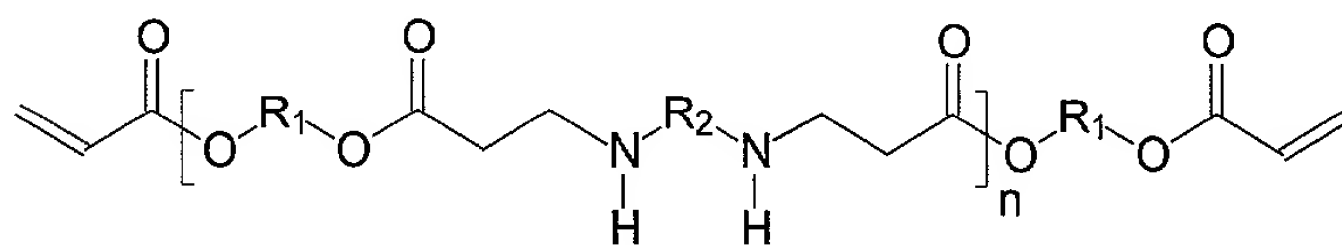
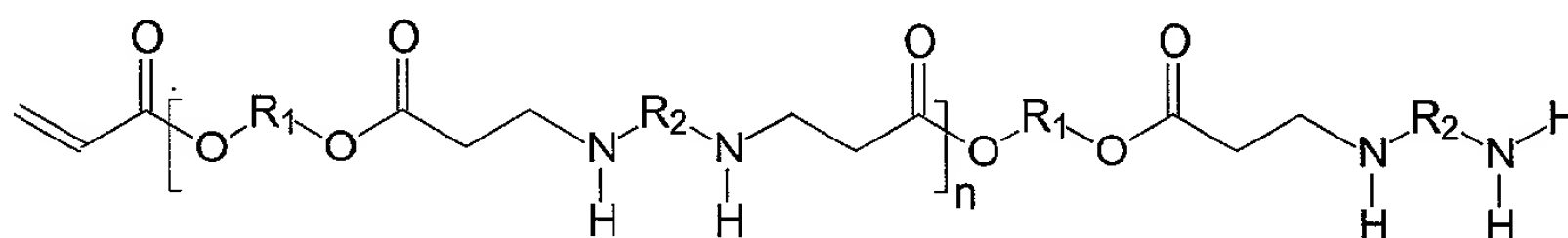
unsubstituted C<sub>5</sub> to C<sub>18</sub> alkylarylene or alkylheteroarylene, difunctional substituted or unsubstituted C<sub>7</sub> to C<sub>30</sub> alkylene arylene,

R<sub>2</sub> denotes is a difunctional substituted or unsubstituted C<sub>1</sub> to C<sub>18</sub> alkylene, difunctional substituted or unsubstituted cycloalkylene, difunctional substituted or unsubstituted C<sub>5</sub> to C<sub>18</sub> arylene or heteroarylene, difunctional substituted or unsubstituted C<sub>5</sub> to C<sub>18</sub> alkylarylene or alkylheteroarylene, difunctional substituted or unsubstituted C<sub>7</sub> to C<sub>30</sub> alkylene arylene,

R<sub>3</sub> denotes H or a substituted or unsubstituted C<sub>1</sub> to C<sub>18</sub> alkylene, substituted or unsubstituted cycloalkylene, substituted or unsubstituted C<sub>5</sub> to C<sub>18</sub> arylene or heteroarylene, substituted or unsubstituted C<sub>5</sub> to C<sub>18</sub> alkylarylene or alkylheteroarylene, substituted or unsubstituted C<sub>7</sub> to C<sub>30</sub> alkylene arylene,

n is an integer.

2. Dental composition of claim 1, wherein said polyaminoester is characterized by the following formulas



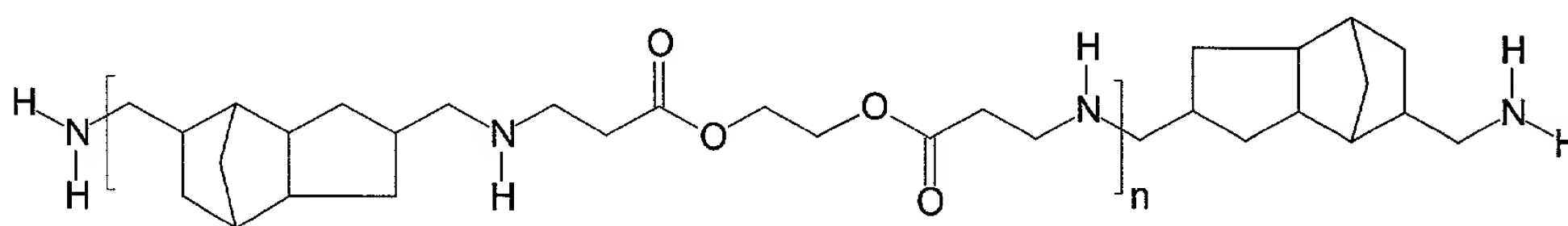
wherein

R<sub>1</sub> denotes is a difunctional substituted or unsubstituted C<sub>1</sub> to C<sub>18</sub> alkylene, difunctional substituted or unsubstituted cycloalkylene, difunctional substituted or unsubstituted C<sub>5</sub> to C<sub>18</sub> arylene or heteroarylene, difunctional substituted or unsubstituted C<sub>5</sub> to C<sub>18</sub> alkylarylene or alkylheteroarylene, difunctional substituted or unsubstituted C<sub>7</sub> to C<sub>30</sub> alkylene arylene,

R<sub>2</sub> denotes is a difunctional substituted or unsubstituted C<sub>1</sub> to C<sub>18</sub> alkylene, difunctional substituted or unsubstituted cycloalkylene, difunctional substituted or unsubstituted C<sub>5</sub> to C<sub>18</sub> arylene or heteroarylene, difunctional substituted or unsubstituted C<sub>5</sub> to C<sub>18</sub> alkylarylene or alkylheteroarylene, difunctional substituted or unsubstituted C<sub>7</sub> to C<sub>30</sub> alkylene arylene, and

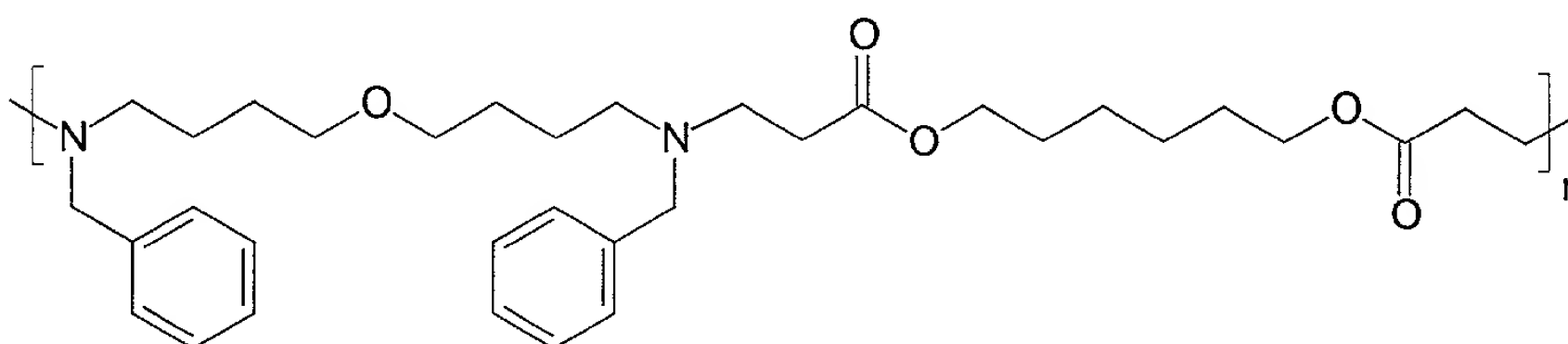
n is an integer.

3. Dental composition of claim 1, wherein said polyaminoesters preferably is characterized by the following formula



wherein n is an integer.

4. Dental composition of claim 1, wherein said polyaminoesters preferably is characterized by the following formula



wherein n is an integer.

5. Dental composition of claim 1, wherein said polyaminoesters are composed of polyamines and bis- or polyacrylates.

6. Dental composition of claim 1, wherein said polyaminoesters are copolymerized with monomers that are usable for step-growth polymerization, preferably with di- or polyepoxides or di- or polyisocyanates.

7. Dental composition of claim 1, wherein said polymerizable monomer preferably is hydroxyethyl methacrylate, hydroxyethylacrylate, hydroxypropyl

methacrylate, ethyleneglykol dimethacrylate, diethyleneglykol dimethacrylate, triethyleneglykol dimethacrylate, 3,(4),8,(9)-Dimethacryloyl-(oxymethyl)-tricyclo-5.2.1.0<sup>2,6</sup> decane, trimethylolpropane triacrylate or trimethylolpropane trimethacrylate, N,N'-dimethylaminoethyl methacrylate.

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8. Dental composition of claim 1, wherein said fillers are functionalized or non-functionalized organic polymers or wherein said fillers are inorganic or organic, reactive or non-reactive, surface modified or non-modified glasses such as polymer granulate or a combination of organic and/or inorganic fillers, strontium aluminosilicate glass, La<sub>2</sub>O<sub>3</sub>, BiPO<sub>4</sub>, ZrO<sub>2</sub>, BaWO<sub>4</sub>, CaWO<sub>4</sub>, SrF<sub>2</sub>, Bi<sub>2</sub>O<sub>3</sub>.

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9. Dental composition of claim 1, applicable as root canal sealing material.

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10. Dental composition of claim 1, applicable as temporary crown & bridge material.